

OVERVIEW

HIV-1 Seroconversion Panel PRB963 is a seven-member panel collected from a single individual over 22 days in 2000. Panel members are undiluted, unpreserved aliquots from plasma units. PRB963-05 is a low positive HIV RNA sample, PRB963-06 is detected at low signal to cutoff by all HIV Ag/Ab methods tested, and PRB963-07 is a very challenging sample for anti-HIV assays.

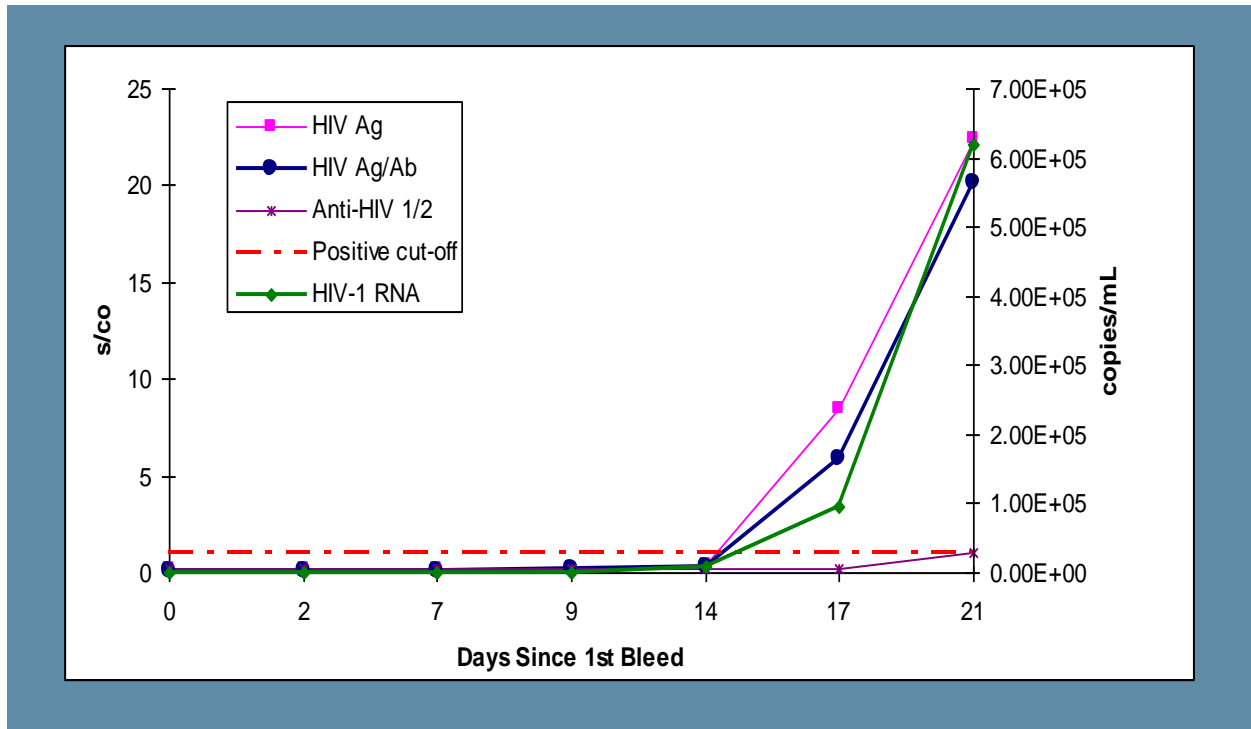
CAUTION: Potentially infectious materials. Follow Universal Precautions. Some panel members were found positive for markers of HIV; all were found negative for HBsAg and anti-HCV.

For Research Use Only. Not for use in diagnostic procedures.

Data are offered for informational purposes only. SeraCare Life Sciences does not claim test results can be duplicated exactly.

For assistance, contact SeraCare Technical Support at 508.244.6400.

EVOLUTION OF EARLY HIV INFECTION



This graph demonstrates the evolution of early HIV infection, illustrated with test results over time for different analytes or analyte combinations.

DATA SHEET

HIV-1 RNA (copies/mL)

Panel Member	Bleed Date	Days Since 1 st Bleed	Fiebig Stage ¹	Roche Ultra-Sensitive HIV-1 RNA	Roche Standard HIV-1 RNA
PRB963-01	28-Aug-00	0	NA	<50	NT
PRB963-02	30-Aug-00	2	NA	<50	NT
PRB963-03	4-Sep-00	7	NA	<50	NT
PRB963-04	6-Sep-00	9	NA	<50	NT
PRB963-05	11-Sep-00	14	I	NT	7.8 x 10 ³
PRB963-06	14-Sep-00	17	II	NT	9.6 x 10 ⁴
PRB963-07	18-Sep-00	21	II/III	NT	6.2 x 10 ⁵
Test Date				23-Apr-07	23-Apr-07
Test Site				SC	SC
Kit Part Code				21118560018	21118560018
Kit Lot No.				H14002	H04637
Kit Expiration Date				29-Feb-08	31-Aug-07

¹ Fiebig stages are categories that define phases of early HIV infection. See Fiebig EW, et al. Dynamics of HIV viremia and antibody seroconversion in plasma donors: implications for diagnosis and staging of primary HIV infection. AIDS 2003, 17:1871-9, and Lee HY, et al. Modeling sequence evolution in acute HIV-1 infection. JTB 2009, 261:341-360.

HIV-1 Antigen (s/co)²

Panel Member	Bleed Date	Days Since 1 st Bleed	Coulter ELISA HIV-1 Ag	Perkin Elmer ELISA HIV-1 Ag	Roche Elecsys HIV-1 Ag	Zeptometrix HIV-1 Ag
PRB963-01	28-Aug-00	0	0.2	0.2	0.2	0.3
PRB963-02	30-Aug-00	2	0.3	0.2	0.3	0.4
PRB963-03	4-Sep-00	7	0.3	0.2	0.3	0.2
PRB963-04	6-Sep-00	9	0.2	0.2	0.2	0.4
PRB963-05	11-Sep-00	14	0.7	0.4	0.5	0.5
PRB963-06	14-Sep-00	17	13.5	8.5	7.9	3.8
PRB963-07	18-Sep-00	21	33.4	22.4	25.2	7.0
Test Date			4-Apr-07	24-May-07	23-May-07	4-Apr-07
Test Site			SC	SC	RL	SC
Kit Part Code			626391	NEK 050A		801111
Kit Lot No.			2066F514	394387	176396-01	303199
Kit Expiration Date			18-Apr-07	16-Nov-07	31-Aug-07	18-Jan-08

² Immunoassay results are means of duplicates expressed as signal to cutoff ratios (s/co). Ratios ≥1.0 are considered reactive and noted in red.

POS = positive; NEG = negative; BLD = below the limit of detection; NA = not available, NT = not tested

RL = Reference Lab; SC = SeraCare

DATA SHEET

HIV Antigen/Antibody (s/co)¹

Panel Member	Bleed Date	Days Since 1 st Bleed	Abbott ARCHITECT Combo	Abbott AxSYM Combo	Abbott PRISM Combo	Abbott Murex Combination	Dade Behring Enzygnost Integral II	Roche Elecsys Combi
PRB963-01	28-Aug-00	0	0.1	0.5	0.1	0.3	0.0	0.2
PRB963-02	30-Aug-00	2	0.1	0.5	0.1	0.3	0.0	0.2
PRB963-03	4-Sep-00	7	0.1	0.5	0.1	0.3	0.1	0.3
PRB963-04	6-Sep-00	9	0.2	0.5	0.1	0.3	0.1	0.2
PRB963-05	11-Sep-00	14	0.3	0.6	0.2	0.4	0.1	0.3
PRB963-06	14-Sep-00	17	5.9	3.3	3.7	2.9	3.0	1.0
PRB963-07	18-Sep-00	21	20.1	9.5	11.4	9.3	8.4	3.2
Test Date			10-May-07	14-May-07	16-May-07	23-May-07	23-May-07	23-May-07
Test Site			RL	RL	RL	RL	RL	RL
Kit Part Code			4J27-30	2G83-20	7G46-48	GE41	OQTO 11	048860446NA
Kit Lot No.			52051HN00	52433LU00	52387HN00	L000010	36815	178860-01
Kit Exp. Date			2-Jan-08	12-Oct-07	23-Oct-07	30-Nov-07	6-Jun-08	30-Nov-07

HIV Antibody (s/co)¹

Panel Member	Bleed Date	Days Since 1 st Bleed	Abbott AxSYM HIV 1/2 gO	Abbott EIA HIV-1/2	Abbott PRISM HIV O Plus HIV 1/2 gO	Abbott Murex HIV 1.2.O HIV	Siemens Advia Centaur Enhanced HIV 1/2 gO
PRB963-01	28-Aug-00	0	0.4	0.1	0.3	0.2	0.1
PRB963-02	30-Aug-00	2	0.7	0.1	0.3	0.2	0.1
PRB963-03	4-Sep-00	7	0.4	0.1	0.3	0.2	0.1
PRB963-04	6-Sep-00	9	0.4	0.1	0.3	0.2	<0.05
PRB963-05	11-Sep-00	14	0.4	0.1	0.3	0.2	0.3
PRB963-06	14-Sep-00	17	0.4	0.1	0.3	0.2	0.1
PRB963-07	18-Sep-00	21	0.6	0.4	0.9	1.0	0.6
Test Date			24-May-07	18-May-07	24-May-07	24-May-07	25-May-07
Test Site			RL	SC	RL	RL	RL
Kit Part Code			3D41-20	3A77	7G46-48	GE94	01463908
Kit Lot No.			50220LU00	50178M200	52543HN00	L000710	96445025
Kit Expiration Date			17-Oct-07	10-Jul-07	8-Jan-08	28-Feb-08	19-Mar-08

¹ Immunoassay results are means of duplicates expressed as signal to cutoff ratios (s/co). Ratios ≥1.0 are considered reactive and noted in red.

POS = positive; NEG = negative; BLD = below the limit of detection; NA = not available, NT = not tested

RL = Reference Lab; SC = SeraCare

DATA SHEET

HIV Confirmatory and Rapid Tests

Panel Member	Bleed Date	Days Since 1 st Bleed	Maxim ¹ Western Blot HIV-1 Band Pattern	Maxim ¹ Western Blot HIV-1 Result	Orasure Rapid HIV-1
PRB963-01	28-Aug-00	0	No Bands	Neg	Neg
PRB963-02	30-Aug-00	2	No Bands	Neg	Neg
PRB963-03	4-Sep-00	7	No Bands	Neg	Neg
PRB963-04	6-Sep-00	9	No Bands	Neg	Neg
PRB963-05	11-Sep-00	14	No Bands	Neg	Neg
PRB963-06	14-Sep-00	17	No Bands	Neg	Neg
PRB963-07	18-Sep-00	21	No Bands	Neg	Neg
Test Date			31-May-07		18-May-07
Test Site			SC		SC
Kit Part Code			98002		6341
Kit Lot No.			F7242-027		6601644
Kit Expiration Date			30-Aug-07		30-Sep-07

¹ Formerly Calypte - Cambridge Biotech Western Blot

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For assistance, contact SeraCare Technical Support at 508.244.6400.

The Product Insert for this panel in PDF form can be found at www.seracarecatalog.com

The printed PI and Data Sheet may be requested by email at info@seracare.com, or by phone at 508.244.6400

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